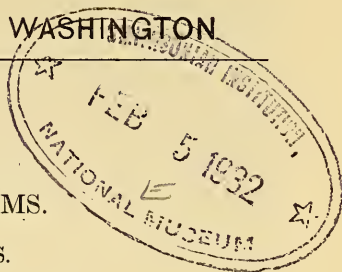


PROCEEDINGS
OF THE
BIOLOGICAL SOCIETY OF WASHINGTON



APHID HOMONYMS.

BY F. C. HOTTES.

The aphid homonyms contained in the following pages were taken from Wilson and Vickory's "Species List of the Aphididae of the World and their Recorded Food Plants" and Davidson's "A List of British Aphids." Liberal use has been made of certain of Davidson's comments regarding synonymy. In order to comply with the rule regarding homonyms it has been necessary to rename several species.

Lachnus abietis Walker 1848 (*Cinara*) has priority over *Lachnus abietis* Fitch 1851 which is a synonym of *Cinara pinicola* (Kaltenbach.)

Aphis acetosae Linne 1767 has priority over *Aphis acetosae* Buckton 1879. Linne and Buckton described the same species. According to Theobald *Aphis acetosae* may be the same as *Aphis rumicis* L.

Aphis alliariae Linne 1758 is incorrectly accredited to Koch in Koch's *Die Pflanzenläuse Aphiden*. Koch's *Siphonophora alliariae* has been given the name *Macrosiphum kalttenbachii* by Schouteden because Linne's species is also a *Macrosiphum*.

Aphis alni DeGeer (*Myzocallis*) 1773 has priority over *Aphis alni* Schrank (*Glyphina*) 1801. *Glyphina betulae* (Kaltenbach) replaces *Aphis alni* Schrank.

Aphis aparines Fabricius 1775 has priority over *Aphis aparines* Schrank 1801 and *Aphis aparines* Kaltenbach 1843. Fabricius and Schrank are generally considered to have had *Aphis rumicis* Linne. Kaltenbach's species is *Myzus cerasi* (Fabricius).

Aphis artemisiae Onomat. hist. nat. P. I. p. 506 (see Goetze 1778 p. 301) has priority over *Aphis artemisiae* Boyer de Fonscolombe (*Macrosiphoniella*) 1841, for which *Macrosiphum* (*Macrosiphoniella*) *basilicum* is suggested. *Siphonophora artemisiae* (*Macrosiphum*) Koch at one time belonged to the same genus and still does if the genus *Macrosiphoniella* is not recognized as a good genus. Ferrari called Koch's species *Siphonophora kochii*. *Aphis artemisiae* Passerini is the same as *Cryptosiphum artemisiae* Buckton. Cowen 1895 described *Nectarophora artemisiae*. Hunter has renamed this form *Nectarophora coweni* (*Macrosiphum*).

Aphis berberidis Kaltenbach (*Liosomaphis*) 1843 has priority over *Aphis berberidis* Fitch 1851. Fitch's species is also a synonym of the species described by Kaltenbach.

Aphis bicolor Haldeman 1844 has priority over *Aphis bicolor* Koch 1855. Neither species has apparently been recognized.

Aphis capsellae Koch 1855 is a homonym of a species described by Kaltenbach in 1843. Neither species has apparently been recognized.

Callipterus castaneae Fitch (*Myzocallis*) 1856 has priority over *Callipterus castanae* Buckton. Baker has renamed Buckton's species *Myzocallis castinicola*.

Aphis cerasi Fabricius (*Myzus*) 1775 has priority over *Aphis cerasi* Müller 1776 and *Aphis cerasi* Schrank 1801. Fabricius and Müller are thought to have had the same species. Kaltenbach renamed the species described by Schrank *Aphis prunicola*.

Aphis chenopodii Schrank 1801 has priority over *Aphis chenopodii* Cowen 1895. Both species are probably synonyms of *Hyalopterus atriplicis* (Linne).

Aphis chrysanthemi Walker 1849 has priority over a species of the same name described by Koch in 1854. Walker's species is considered a synonym of *Aphis padi* L. Koch's species is according to Kaltenbach in all probability *Aphis cardui* L.

Aphis cinci Schrank 1801 has priority over *Aphis cinci* Williams 1911. The species described by Williams was redescribed by Gillette and given the name *Aphis torticauda*, a species since made the type of the genus *Bipersona*.

Aphis coryli Goetze (*Myzocallis*) 1778 has priority over *Aphis coryli* Mosley 1841. According to Davidson the species described by Mosley is *Capitophorus avellanae* (Schrank). Koch's *Callipterus coryli* is a synonym of the species described by Goetze.

Aphis crataegi Kaltenbach 1843 has priority over *Aphis crataegi* Koch; a species which will require a new name when recognized.

Aphis discolor Burmeister 1835 has priority over *Aphis discolor* Haldeman 1844. Neither species apparently has been recognized.

Aphis epilobii Kittel 1827, an apparently unrecognized species, has priority over *Aphis epilobii* Kaltenbach 1843, which requires a new name and *Aphis vetusta* is suggested.

Aphis eupatorii Passerini 1863 has priority over *Aphis eupatorii* Oestlund 1878 and the name *Aphis nostras* is suggested for it.

Aphis exual Walker 1849 has page priority over a species of the same name described by Walker in the same year. According to Davidson both descriptions refer to the same species.

Aphis euphorbiae Kaltenbach 1843 has priority over *Aphis euphorbiae* Walker 1849. Neither species has apparently been recognized.

Aphis gallarum Gmelin (*Cryptosiphum*) 1788 has priority over *Aphis gallarum* Kaltenbach 1856. The first synonym of Kaltenbach's species, not a homonym, is *Cryptosiphum artemisiae* Buckton.

Aphis heraclei Cowen 1895 is a homonym of *Aphis heraclei* Kaltenbach

1843. Davis has renamed the species described by Cowen, *Aphis heraclella*.

Aphis holci Hardy (*Brachycolus*) 1850 has priority over *Aphis holci* Ferrari 1872. The species described by Ferrari is still to be identified.

Aphis hordei Kyber (*Macrosiphum*) 1815 has priority over *Aphis hordei* Del Guercio 1913. Kyber never described his species, hence it is a nomen nudum. Davidson and Theobald consider Kyber's species to be *Macrosiphum granarium* (Kirby). It would appear that a species sufficiently characterized to be placed in synonymy is not a nomen nudum. Kaltenbach's *Aphis cerealis* is the same as *Macrosiphum granarium* (Kirby).

Aphis hordei Del Guercio 1913 requires a new name and **Aphis kyberi** is suggested.

Aphis juglandis Goetze (*Callipterus*) 1778 has priority over a species of the same name described by Blanchard in 1840. Blanchard's species is probably a synonym of the species described by Goetze. This species is often credited to Frisch, who described it prior to 1758. Goetze first used the name *juglandis* as a binomial and the species should be credited to him, as his usage has priority over both Gmelin 1788 and Kaltenbach 1843, authors generally credited with describing it.

Aphis lactucae Linne 1758 has priority over *Aphis lactucae* Schrank (*Myzus*) 1801 and *Aphis lactucae* Kaltenbach 1843. *Aphis lactucae* Kaltenbach has been renamed *Amphorophora cosmopolitana* by Mason. Linne's *Aphis lactucae* is said to be a *Macrosiphum*; it is more likely a *Myzus*, in which event *Aphis lactucae* Schrank (*Myzus*) besides being a homonym of the species described by Linne is also very likely a synonym of Linne's species. Should Linne's *Aphis lactucae* upon re-discovery prove different from *Myzus lactucae* (Schrank), Schrank's species will require a new name.

Lachnus laricis Hartig (*Cinara*) 1837 has priority over *Lachnus laricis* Walker 1848 and *Lachnus laricis* Koch 1857. Hartig did not describe his species other than to name the host upon which he found it. Hartig's name may therefore be considered a nomen nudum by some, in spite of the fact that the host and genus is sufficient to assure correct association in this case. In case Hartig's name is not accepted *Cinara laricifex* (Fitch) is the first name available. All names refer to the same species.

Aphis ligustri Mosley (*Rhopalosiphonius*) 1841 has priority over a species described by Kaltenbach in 1843 and given the same name. Kaltenbach's species is a synonym of the species described by Mosley, although the species is credited to Kaltenbach by Davidson and Theobald.

Aphis loniceræ Siebold (*Rhopalosiphonius*) 1839 has priority over *Aphis loniceræ* Boyer de Fonscolombe 1841, *Aphis loniceræ* Mosley and *Aphis loniceræ* Monell 1879. Boyer's species is apparently unknown. The species described by Mosley is a synonym of *Hyadaphis xylostei* (Schrank). The species described by Monell requires a new name and **Gypsoaphis oestlundi** is suggested.

Aphis malvæ Mosley 1841 (*Macrosiphum*) has priority over *Aphis malvæ* Walker 1849 and *Aphis malvæ* Koch 1855. Walker's species will require a new name if found to be distinct from *Macrosiphum malvæ* Mosley. Koch's species is said to be a synonym of *Aphis gossypii* Glover.

Mosley's species is now known as *Macrosiphum pelargonii* (Kaltenbach). Walker in 1848 held Kaltenbach's species to be a synonym of *Aphis malvae* Mosley. Davidson holds the same view.

Aphis nerii Boyer de Fonscolombe 1841 has priority over a species of the same name described by Kaltenbach in 1843. The two species are not the same and I have seen no record of Kaltenbach's species in literature.

Aphis persicae Sulzer 1776 (*Myzus*) has priority over species described with the same name by Boyer de Fonscolombe in 1841, by Kaltenbach in 1843, and by Koch in 1854. Buckton renamed Boyer's species *Aphis amygdali*. Kaltenbach's species is in all probability *Aphis cardui* L. while Koch's species is very likely the same.

Aphis pilosa Haldeman 1844 has priority over *Aphis pilosa* Walker 1849 and *Aphis pilosa* Zetterstedt 1840. None of the above species has been recognized in literature.

Aphis plantaginis Goetze 1778 has priority over *Aphis plantaginis* Schrank 1801. The species described by Goetze has never been recognized. Since Schrank's name is a homonym and must be replaced it simplifies matters to declare it a synonym of the species described by Goetze rather than to give it a new name. This can be done for there is nothing in the original descriptions to distinguish the two forms.

Rhizobius poae Thomas 1879 has priority over *Rhizobius poae* Buckton 1883. Buckton renamed his species *Rhizobius graminis*; it is now placed in the genus *Geoica*.

Aphis polygoni Walker 1848 has priority over a species described with the same name by Van der Goot in 1912, for which the name *Aphis insons* is suggested. *Aphis polygoni* was also used by Macchati in 1885. The latter species has not been recognized.

Myzus potentillae Oestlund (*Macrosiphum*) has priority over a species given the same name by Williams in 1911. The species described by Williams is seriously involved in synonymy.

Aphis pruni Geoffroy 1762 has priority over *Aphis pruni* Scopoli 1763, *Aphis pruni* Fabricius 1775 and *Aphis pruni* Koch 1854. *Aphis pruni* Scopoli is the same as *Phorodon humuli* (Schrank) 1801. *Aphis pruni* Fabricius is recognized as a synonym of *Aphis arundinis* Fabricius 1775 (*Hyalopterus*). *Aphis pruni* Geoffroy must replace *Aphis arundinis* Fabricius unless Geoffroy's name can be rejected on the grounds that he was not consistently binomial. Koch's *Aphis pruni* is *Aphis cardui* L.

Aphis pyri Kittel 1827 has priority over *Aphis pyri* Hartig 1841, *Aphis pyri* Boyer de Fonscolombe 1841 and *Aphis pyri* Koch 1857. The species described by Kittel is *Aphis pomi* DeGeer. The species described by Hartig has not been recognized. Boyer's species is probably one of the more recently described species from apple, hence it very likely does not require a new name here. *Aphis pyri* Koch has been renamed *Aphis kochi* by Schouteden.

Aphis rhamnii Boyer de Fonscolombe 1841 has priority over species described with the same name by Kaltenbach in 1843. Both species are the same.

Aphis ribis Linne (*Myzus*) 1758 has priority over *Aphis ribis* Müller 1776 and *Aphis ribis* Sanborn 1904. Linne and Müller very likely had the same species. Sanborn must have had a true *Aphis* which has since probably been described under another name.

Aphis rosarum Kaltenbach 1843 (*Capitophorus*) has priority over a species of the same name described by Walker in 1849. Walker's species is the same as that described by Kaltenbach.

Aphis rubicola Haldeman 1844 has priority over *Aphis rubicola* Oestlund 1887. If Oestlund's species is not a synonym of the species described by Haldeman the next available name is that of Dr. Patch, *Aphis rubiphila*.

Aphis salicis Linne 1758 (*Clavigerus*) has priority over *Aphis salicis* Sulzer 1776, *Aphis salicis* Müller 1776 and a species with the same name described by Curtis in 1800. The species described by Sulzer, Müller and Curtis is thought to be *Tuberolachnus saligna* Gmelin 1788, the first available name not a homonym.

Aphis saliceti Schrank 1801 (*Chaitophorus*) has priority over a species described with the same name by Harris in 1841. Uhler has renamed the species described by Harris *Lachnus salicicola*.

Aphis sambuci Linne 1758 has priority over *Aphis sambuci* Müller 1776, of which I find no mention in literature.

Aphis scabiosae Scopoli 1763 has priority over a species given the same name by Schrank in 1801. This name has always been credited to Schrank. The species described by Schrank is most likely the same as that described by Scopoli so there is no need for a new name.

Aphis senecionis Koch 1854 has priority over *Aphis senecionis* Williams 1911.

Macrosiphum trifolii Pergande 1904 has priority over a species given the same name by Theobald 1912. Davis has renamed Theobald's species *Macrosiphum theobaldii*.

Aphis sinensis Walker 1852 has priority over *Aphis sinensis* Del Guercio 1900, which requires a new name if it is not a synonym of the species described by Walker, which is highly improbable. Davidson and Theobald do not mention Walker's species.

Aphis solani Kittel 1827 has priority over *Aphis solani* Kaltenbach 1843. Koch's *Siphonophora gei* may be the same as *Aphis solani* Kittel. Kaltenbach's *Aphis solani* has been redescribed by Theobald and given the name *Macrosiphum pseudosolani*.

Aphis tuberculata Patch 1914 is a homonym of *Aphis tuberculata* Heyden 1837. The name *Aphis* (*Anuraphis*) *feminea* is suggested for the species described by Dr. Patch.

Aphis urticae Linne 1758 has priority over a species given the same name by Fabricius in 1775 and by Schrank in 1801. The species described by Fabricius and Linne have not been recognized. Schrank's species has been renamed *Macrosiphum schranki* by Theobald.

Aphis veratri Walker 1852 has priority over a species given the same name by Cowen in 1895. Cowen's species has not been recognized.

Aphis viburni Scopoli 1763 has priority over *Aphis viburni* Schrank 1801.

Theobald considers the two synonymous, Davidson considers them distinct.

Aphis viciae Fabricius 1781 has priority over *Aphis viciae* Kaltenbach (*Megoura*) 1843. According to Davidson the species described by Fabricius is a synonym of *Aphis craccae* L. Kaltenbach's species requires a new name and *Megoura bibula* is suggested.

Aphis verbasci Schrank 1801 has priority over a species given the same name by Boyer de Fonscolombe in 1841 which has not been recognized.

Aphis viminalis Hartig and a species given the same name by Boyer de Fonscolombe were both described in 1841. Hartig's species has not been recognized, while Boyer's species is a synonym of *Tuberolachnus saligna* (Gmelin).

Aphis vitellinae Schrank 1801 (*Chaitophorus*) has priority over a species given the same name by Hartig in 1841. Hartig's species has not been recognized.

Aphis yuccae Lichtenstein 1884 has priority over *Aphis yuccae* Cowen 1895. The species Cowen described is thought to be a synonym of *Aphis helianthi* Monell.

Aphis xylostei DeGeer (*Prociphilus*) 1773 has priority over *Aphis xylostei* Schrank 1801. *Hyadaphis xylostei* (Schrank) requires a new name and *Hyadaphis mellifera* is suggested.